

CLAIMS

What is claimed as being new and desired to be protected by LETTERS PATENT of the United States is as follows:

1. A dual beacon obstruction lighting system 10 for providing both light emitting diode emissions and gas energy emissions comprising, in combination:

a lower portion having a cylindrical configuration with an upper open end and an lower open end and a periphery there between and a lower baffle plate supporting the lower open end with a gas discharge light source for generating white light, the gas discharge light source being coupled to the lower baffle plate, the lower portion having an upper baffle plate with a central aperture to allow heat circulation located in the upper open end, the periphery of the lower portion being comprised of a Fresnel lens forming a rotated cylindrical lens in the central extent devised to capture a maximal portion of substantially omni directional light from the gas discharge light source;

a red light generating upper portion having a cylindrical configuration received over the upper extent of the lower portion and with an open upper end, an open lower end and a periphery there between with the open lower end including the upper baffle plate, the periphery being comprised of a translucent red material, the upper light emitting portion further having a cylinder with a plurality of rows of a plurality of equally

spaced light emitting solid state diodes in each row and having a central aperture in the cylinder to allow cooling of the upper light emitting portion;

a cylindrical cover with a screen coupled to the open upper end of the upper portion with a central screened portion adapted to allow venting of the upper and lower portions; and

the gas discharge light source of the lower portion as well as the plurality of light emitting diodes of the upper portion adapted to be electrically coupled to an external energy source such that during day light hours the lower portion produces brilliant white flashes of light and during the night time hours the upper portion produces red flashes of light.

2. A dual beacon obstruction lighting system comprising:

a white light generating portion comprised of a gas discharge light source and a rotated cylindrical lens there around; and

a red light generating portion comprised of a plurality of light emitting diodes.

3. The system as set forth in claim 2 wherein the rotated cylindrical lens is a Fresnel lens.

4. The system as set forth in claim 2 wherein the red light generating portion has a translucent protective cover there around.